

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	29375	((cu copper) with alloy) same ("%" percent\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 17:17
L3	4711	L2 and ((diffus\$3 barrier) same (zr ti hf v ta ni cr nb co mn mo w rh pd pt zirconium titanium hafnium vanadium tantalum nickel chromium niobium cobalt manganese molybdenum tungsten rhodium palladium platinum))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 17:17
L4	1953	L3 and ((diffus\$3 barrier) same (si silicon silicide))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 17:17
L5	10286	((257/59,72,751,753,762,E27.131) or (349/46,139,147,148)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/19 17:17
L6	133	L4 and L5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 17:17
L7	1820	L4 not L6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 17:17
L8	752	L7 and ("257"/\$.ccls. "438"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 17:23

## EAST Search History

L9	776	(diffus\$3 barrier) same (substrate si silicon silicide) same ((cu copper) near2 alloy) same (at% \$2%"%" "%" percent\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 17:27
L10	326	L9 and ("257"/\$.ccls. "438"/\$.ccls. "349"/\$.ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 17:28
L11	293	L10 not L6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/19 17:31
S1	163062	(gate scan\$4) near (wiring line bus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 15:24
S2	322293	(data source) near (wiring line bus)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 15:24
S3	5855	(diffusion near barrier) same copper	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 15:49
S4	1697	copper same (at% (atom\$2 near percent\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 15:48

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S5	1733	copper same (at% (atom\$2 near percent\$3) (at near ("%" percent\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:35
S6	422	S5 and ((diffus\$3) same copper)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 16:00
S7	316	S6 and (gate scan\$4 data source)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 16:00
S8	3086	(copper cu) same (at% (atom\$2 near percent\$3) (at near ("%" percent\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 16:41
S9	3001	S8 and (zr ti hf v ta ni cr nb co mn mo w rh pd pt zirconium titanium hafnium vanadium tantalum nickel chromium niobium cobalt manganese molybdenum tungsten rhodium palladium platinum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:37
S10	2825	S9 and ((cu copper) same (zr ti hf v ta ni cr nb co mn mo w rh pd pt zirconium titanium hafnium vanadium tantalum nickel chromium niobium cobalt manganese molybdenum tungsten rhodium palladium platinum))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:08
S11	1240	S10 and (silicon silicide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 16:50

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S12	1015	S9 and ((silicon silicide) same (zr ti hf v ta ni cr nb co mn mo w rh pd pt zirconium titanium hafnium vanadium tantalum nickel chromium niobium cobalt manganese molybdenum tungsten rhodium palladium platinum))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 16:58
S13	102	alloy with interface with barrier with copper	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 16:59
S14	13	S13 same silicon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:06
S15	1	S14 and S8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:06
S16	554	S9 and (((cu copper) near alloy) same (zr ti hf v ta ni cr nb co mn mo w rh pd pt zirconium titanium hafnium vanadium tantalum nickel chromium niobium cobalt manganese molybdenum tungsten rhodium palladium platinum))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:10
S17	388	S16 and (si silicon silicide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:10
S18	29351	((cu copper) with alloy) same ("% percent\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 20:49

## EAST Search History

S19	4704	S18 and ((diffus\$3 barrier) same (zr ti hf v ta ni cr nb co mn mo w rh pd pt zirconium titanium hafnium vanadium tantalum nickel chromium niobium cobalt manganese molybdenum tungsten rhodium palladium platinum))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 20:50
S20	1951	S19 and ((diffus\$3 barrier) same (si silicon silicide))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 17:41
S21	10265	((257/59,72,751,753,762,E27.131) or (349/46,139,147,148)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/17 17:41
S22	133	S20 and S21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 21:28
S23	8871	((cu copper) near alloy) same ("% percent\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 20:49
S24	19132	((cu copper) near alloy) same (\$2%" percent\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 20:49
S25	3257	S24 and ((diffus\$3 barrier) same (zr ti hf v ta ni cr nb co mn mo w rh pd pt zirconium titanium hafnium vanadium tantalum nickel chromium niobium cobalt manganese molybdenum tungsten rhodium palladium platinum))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/17 20:50

## EAST Search History

S26	2	"6503641".pn. and liner	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 19:10
S27	2	("4673623"   "5889328").PN. OR ("6503641").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/18 19:11
S28	2	("4673623"   "5889328").PN. OR ("6503641").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/18 19:23
S29	2	("4673623"   "5889328").PN. OR ("6503641").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/18 19:24
S30	29351	((cu copper) with alloy) same ("% percent\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 21:28
S31	4704	S30 and ((diffus\$3 barrier) same (zr ti hf v ta ni cr nb co mn mo w rh pd pt zirconium titanium hafnium vanadium tantalum nickel chromium niobium cobalt manganese molybdenum tungsten rhodium palladium platinum))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 21:28
S32	1951	S31 and ((diffus\$3 barrier) same (si silicon silicide))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 21:28
S33	10265	((257/59,72,751,753,762,E27.131) or (349/46,139,147,148)).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/18 21:28
S34	133	S32 and S33	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 21:28

## EAST Search History

S35	1818	S32 not S34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/18 21:29
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# Infofreence Search

## **EAST Search History**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S37	603	((copper cu) and (diffus\$3 barrier) and (Si silicon) and (at% \$3%"%" percent\$3)).clm.	US-PGPUB	OR	ON	2007/07/19 13:51